

Amendments to the Abstract:

~~A method for making a carbon nanotube-based field emission display device includes the following steps: providing an insulative layer (22) having a first surface; depositing a layer of catalyst (26) on the first surface of the insulative layer; forming a spacer (28) having a number of openings therein such that patterned areas of the layer of catalyst are exposed in the openings; forming arrays of carbon nanotubes (30) extending from the layer of catalyst in the openings; forming a cathode electrode (34) on a top of each of the arrays of carbon nanotubes; forming gate electrodes (40) on a second, opposite surface of the insulative layer offset from the patterned areas; removing portions of the insulative layer corresponding to the arrays of carbon nanotubes so as to expose the arrays of carbon nanotubes; and attaching an anode electrode (50) having a phosphor screen (52) to the above obtained structure. A method for making a field emission display includes: (1) providing a detachable substrate having a plane surface; (2) forming gate electrodes in a predetermined pattern on the plane surface of the detachable substrate; (3) forming an intermediate layer on the gate electrodes; (4) forming a catalyst layer on the intermediate layer; (5) forming a spacer in a manner corresponding to a predetermined pattern on the layer of catalyst material; (6) forming carbon nanotube arrays extending from the layer of catalyst material; (7) forming cathode electrodes on first ends of the carbon nanotube arrays; and (8) removing the detachable substrate, and removing portions of the intermediate layer corresponding to positions of the carbon nanotube arrays so as to expose opposite second ends of the carbon nanotube arrays that face toward the gate electrodes.~~